

Claims

1. Balun, consisting of four coupled planar lines (1, 2, 3, 4) running next to each other, with an unbalanced connection gate (7) and two balanced connection gates (5, 9), characterized by the fact

- that one end of a first one of the four lines serves as a first balanced connection gate (5),
- that the other end of this first line (1) is connected to the end of the second line (2) adjacent to it,
- that this end of the second line (2) connected to the first line (1) forms the unbalanced connection gate (7) and the other end of the second line (2) lies at ground potential (8),
- that, from the third line (3) adjacent to the second line (2), the end lying next to the unbalanced connection gate (7) lies at ground potential (10) and the other end serves as second balanced connection gate (9),
- and that the end of the fourth line (4) adjacent to the third line (3), lying next to the second balanced connection gate (9) lies at ground potential (11) and the other end is connected to the end of the second line (2) forming the unbalanced connection gate (7).

2. Balun according to Claim 1, characterized by the fact that the coupling length of the four lines (1, 2, 3, 4) corresponds to roughly one-quarter of the average operating wavelength of the balun.